

01-Dec-18 10:09am From: Hughes Networks Systems

301-428-2802

T-888 P.005/008 F-013

**HUGHES****COMBINED DECLARATION FOR PATENT APPLICATION  
AND POWER OF ATTORNEY**

Attorney Docket No: PD-201178

- ☒ Original  
☐ Continuation  
☐ Division  
☐ Continuation-in-Part  
☐ Supplemental

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **A SYSTEM AND METHOD FOR PROVIDING CONTENTION CHANNEL ORGANIZATION FOR BROADBAND SATELLITE ACCESS IN A COMMUNICATIONS NETWORK**

the specification of which:

(check one) ☒ is attached hereto.  
☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §§119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application that designated at least one country other than the United States of America, listed below and have also identified below any foreign application(s) for patent or inventor's certificate, or of any PCT international application, having a filing date before that of the application on which priority is claimed:

Foreign Application Number	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Claimed	Certified Copy Attached
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

Application Number	Filing Date (MM/DD/YYYY)

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Parent Application or Parent PCT Number	Filing Date (MM/DD/YYYY)	Patent Number (if applicable)

01-Dec-18 10:09am From: Hughes Networks Systems

301-428-2802

T-899 P.008/008 F-013

## DECLARATION/POWER OF ATTORNEY

Page 2 of 2

Attorney Docket No: PD-201178

I hereby appoint the following attorneys, or agent and attorneys, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

John T. Whelan  
Craig L. Plastrik  
Michael W. Sales

Registration No. 92,448  
Registration No. 41,254  
Registration No. 30,213

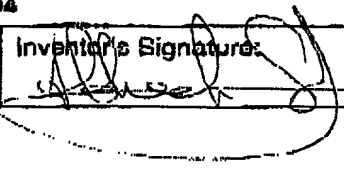
## Correspondence Address:

Name: Hughes Electronics Corporation  
Patent Docket Administration  
Address: P.O. Box 856  
Bldg. 1, Mail Stop A108  
City/State/Zip: El Segundo, CA 90245-0956  
Country: USA

Telephone: 301-428-5965

Facsimile: 301-428-2802

I hereby declare that all statement made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or Joint Inventor:	Inventor's Signature:	Date:
Anthony Noerpel		
Residence (City and State)	Citizenship	
Lovettsville, Maryland	USA	
Residence Address (Street/City/State/Zip)		
14068 Rehobeth Church, Lovettsville, Maryland 20180		
Full Name of Joint Inventor:	Inventor's Signature:	Date:
Channasandra Ravishankar		
Residence (City and State)	Citizenship	
Germantown, Maryland	India	
Residence Address (Street/City/State/Zip)		
12304 Milestone Manner Lane, Germantown, Maryland 20870		
Full Name of Joint Inventor:	Inventor's Signature:	Date:
Xiaoping He		
Residence (City and State)	Citizenship	
Frederick, Maryland	China	
Residence Address (Street/City/State/Zip)		
3617 Byron Circle, Frederick, Maryland 21704		
Full Name of Joint Inventor:	Inventor's Signature:	Date:
Anhaek Saha		09/01/2002
Residence (City and State)	Citizenship	
New Delhi, India	India	
Residence Address (Street/City/State/Zip)		
2nd Floor, F6/7, Malviya Nagar, New Delhi, India PIN 110-017		

## COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

Attorney Docket No: PD-201178

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☐ Continuation  
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- (check one) ☒ is attached hereto.  
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Foreign Application Number	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Claimed	Certified Copy Attached
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U.S. Parent Application or Parent PCT Number	Filing Date (MM/DD/YYYY)	Patent Number (if applicable)

## DECLARATION/POWER OF ATTORNEY

Page 2 of 2

Attorney Docket No: PD-201178

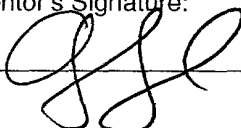
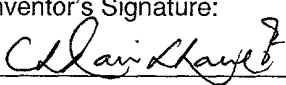
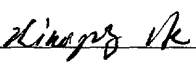
I hereby appoint the following attorneys, or agent and attorneys, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

John T. Whelan	Registration No. 32,448
Craig L. Plastrik	Registration No. 41,254
Michael W. Sales	Registration No. 30,213

**Correspondence Address:**

Name: Hughes Electronics Corporation  
 Patent Docket Administration  
 Address: P.O. Box 956  
 Bldg. 1, Mail Stop A109  
 City/State/Zip: El Segundo, CA 90245-0956  
 Country: USA  
 Telephone: 301-428-5965 Facsimile: 301-428-2802

I hereby declare that all statement made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or Joint Inventor: Anthony Noerpel	Inventor's Signature: 	Date: Jan 24, 2002
Residence (City and State) Lovettsville, Maryland	Citizenship USA	
Residence Address (Street/City/State/Zip) 14068 Rehobeth Church, Lovettsville, Maryland 20180		
Full Name of Joint Inventor: Channasandra Ravishankar	Inventor's Signature: 	Date: Feb 12, 2002
Residence (City and State) Germantown, Maryland	Citizenship India	
Residence Address (Street/City/State/Zip) 12304 Milestone Manner Lane, Germantown, Maryland 20876		
Full Name of Joint Inventor: Xiaoping He	Inventor's Signature: 	Date: 1/22/02
Residence (City and State) Frederick, Maryland	Citizenship China	
Residence Address (Street/City/State/Zip) 3617 Byron Circle, Frederick, Maryland 21704		
Full Name of Joint Inventor: Abheek Saha	Inventor's Signature:	Date:
Residence (City and State) New Delhi, India	Citizenship India	
Residence Address (Street/City/State/Zip) 2nd Floor, F6/7, Malviya Nagar, New Delhi, India PIN 110-017		

1-Pag-18 10:02am From-Hughes Networks Systems

301-428-2802

T-000 P.002/000 F-013

**HUGHES****ASSIGNMENT**Page 1 of 3  
Attorney Docket No: PD-201178

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a **A SYSTEM AND METHOD FOR PROVIDING CONTENTION CHANNEL ORGANIZATION FOR BROADBAND SATELLITE ACCESS IN A COMMUNICATIONS NETWORK**:

- ☒ for which application for Letters Patent of the United States has been executed by me on this day; or  
☐ which is embodied in U.S. Patent Application Serial No. \_\_\_\_\_ filed on \_\_\_\_\_.

WHEREAS, HUGHES ELECTRONICS CORPORATION, (hereinafter referred to as HUGHES), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world,

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to HUGHES, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said HUGHES, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to HUGHES, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by HUGHES, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of HUGHES, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in HUGHES, its successors, assigns or other legal representatives.

001-Dec-18 10:02am From-Hughes Networks Systems

301-428-2802

T-000 P.000/000 F-013

ASSIGNMENT  
Page 2 of 3  
Attorney Docket No. PD-201179

IN WITNESS WHEREOF, I have executed this instrument:

Full Name of Sole or Joint Inventor: Anthony Noerpel	Inventor's Signature:	Date:
Residence (City and State) Lovettville, Va	INVENTION AGREEMENT DATE	
Full Name of Joint Inventor: Channasandra Ravishankar	Inventor's Signature:	Date:
Residence (City and State) Germantown, Maryland	INVENTION AGREEMENT DATE	
Full Name of Joint Inventor: Xiaoping He	Inventor's Signature:	Date:
Residence (City and State) Frederick, Maryland	INVENTION AGREEMENT DATE	
Full Name of Joint Inventor: Abheek Saha	Inventor's Signature: <i>Abheek Saha</i>	Date: 19/12/2001
Residence (City and State) New Delhi, India	INVENTION AGREEMENT DATE	

STATE OF  
NOTARY  
COUNTY OF

SS:

On \_\_\_\_\_ before me, \_\_\_\_\_

I, Notary Public in and for said State, personally appeared \_\_\_\_\_

☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public \_\_\_\_\_

STATE OF HARYANA, INDIA

COUNTY OF \_\_\_\_\_

SS:

On \_\_\_\_\_ before me, \_\_\_\_\_

I, Notary Public in and for said State, personally appeared \_\_\_\_\_

☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public \_\_\_\_\_

*Bohit*  
*Bohit*

19/12/01

*Palan Chahin*  
RZF 9/3

ATTESTED

AT

RV

G... ANA

JAN-01-18 10:03am From-Hughes Networks Systems

301-428-2802

T-000 P.004/000 F-013

ASSIGNMENT

Page 3 of 3

Attorney Docket No: PD.201178

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

SS:

On \_\_\_\_\_ before me, \_\_\_\_\_

a Notary Public in and for said State, personally appeared \_\_\_\_\_

☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public \_\_\_\_\_

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

SS:

On \_\_\_\_\_ before me, \_\_\_\_\_

a Notary Public in and for said State, personally appeared \_\_\_\_\_

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WITNESS my hand and official seal.

Notary Public \_\_\_\_\_

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

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On \_\_\_\_\_ before me, \_\_\_\_\_

a Notary Public in and for said State, personally appeared \_\_\_\_\_

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WITNESS my hand and official seal.

Notary Public \_\_\_\_\_